# Mitogen-Activated Protein Kinase Kinase Kinase 12 (MAP3K12) Rat Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Mitogen-activated protein kinase kinase kinase 12 (Map3k12), Recombinant Protein |
| **Full Product Name** | Recombinant Rat Mitogen-activated protein kinase kinase kinase 12 (Map3k12) , partial |
| **Product Gene Name** | Map3k12 recombinant protein |
| **Product Synonym Gene Name** | Map3k12 |
| **Host** | E Coli or Yeast or Baculovirus or Mammalian Cell |
| **Form/Format** | Lyophilized or liquid (Format to be determined during the manufacturing process) |
| **Purity/Purification** | Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific) |
| **Preparation and Storage** | Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended. |
| **Molecular Weight** | 96,308 Da |
| **Tag Information** | This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information. |
| **Sterility** | Sterile filter available upon request. |
| **Endotoxin** | Low endotoxin available upon request. |
| **3D Structure** | ModBase 3D Structure for Q63796 |
| **Species** | Rat |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for Map3k12 recombinant protein** | This protein is a member of serine<br>threonine protein kinase family. This kinase contains a leucine-zipper domain, and is predominately expressed in neuronal cells. The phosphorylation state of this kinase in synaptic terminals was shown to be regulated by membrane depolarization via calcineurin. This kinase forms heterodimers with leucine zipper containing transcription factors, such as cAMP responsive element binding protein (CREB) and MYC, and thus may play a regulatory role in PKA or retinoic acid induced neuronal differentiation. |
| **Other Notes** | Small volumes of Map3k12 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for Map3k12 purchase** | MBS1380646 is a recombinant protein targeting Map3k12. Also known as Recombinant Rat Mitogen-activated protein kinase kinase kinase 12 (Map3k12) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Map3k12. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 6981716 |
| **NCBI GeneID** | 25579 |
| **NCBI Accession #** | NP_037187.1 |
| **UniProt Primary Accession #** | Q63796 |
| **UniProt Related Accession #** | Q63796 |

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| **GenBank Nucleotide #** | NM_013055.1 |
| **NCBI Official Full Name** | mitogen-activated protein kinase kinase kinase 12 |
| **NCBI Official Synonym Full Names** | mitogen activated protein kinase kinase kinase 12 |
| **NCBI Official Symbol** | Map3k12 |
| **NCBI Official Synonym Symbols** | PK; DLK; MUK; Zpk |
| **UniProt Protein Name** | Mitogen-activated protein kinase kinase kinase 12 |
| **UniProt Synonym Protein Names** | Dual leucine zipper bearing kinase; DLK; Leucine-zipper protein kinase; ZPK; MAPK-upstream kinase; MUK; Mixed lineage kinase |
| **Protein Family** | Mitogen-activated protein kinase kinase kinase |
| **UniProt Gene Name** | Map3k12 |
| **UniProt Synonym Gene Names** | Muk; DLK; ZPK; MUK |
| **NCBI Protein Information** | mitogen-activated protein kinase kinase kinase 12 |
| **NCBI Summary for Map3k12** | kinase which is an activator of the JNK-pathway [RGD, Feb 2006] |
| **UniProt Comments for Map3k12** | May be an activator of the JNK/SAPK pathway. Phosphorylates beta-casein, histone 1 and myelin basic protein in vitro. |
| **Research Articles on Map3k12** | **1.** These findings explain how DLK specifically mediates nerve injury responses and reveal a novel cellular mechanism that ensures the specificity of neuronal kinase signaling. |
| **Precautions** | All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines. |
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